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Using Internet of Things (IoT) technology to study environmental processes

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The Internet of Things is a term which has emerged to describe the increase of Internet connectivity of everyday objects. While wireless sensor networks have developed highly energy efficient designs they need a step-change in their interoperability and usability to become essential tools in the study of our environment. We discuss the design, deployment and results from an IoT system installed on the Cairngorm Plateau, Scotland. This is a fragile remote environment, which provides an ideal location to test IoT techniques. We have investigated cryospheric, hydrologic and ecological processes, and we report our preliminary findings.